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GROUP: 18 - Vehicle Performance

DATE: August 25, 2020

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This bulletin supersedes Service Bulletin 18-013-17 REV. A, dated October 11, 2017, which should be removed from your files. All revisions are highlighted with **asterisks**** and include an additional Diagnostic Trouble Code (DTC) and LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

This bulletin involves reprogramming the Powertrain Control Module (PCM) with the latest available software.

MODELS:

2017 (KL) Jeep Cherokee

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, APAC, EMEA and LATAM.

NOTE: This bulletin applies to vehicles equipped with 3.2L V6 24V VVT Engine W/ESS (Sales Code EHK).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that one of the following DTCs have been set:

- ****P1D83 - Implausible Engine Oil Temperature Signal Received.****
- P0556 - Brake Booster Pressure Sensor Circuit Performance.
- U0428 - Implausible Data Received From Steering Angle Sensor Module.
- U1504 - Implausible Message Data Length Received From Steering Angle Sensor.
- C0501 - Left Front Wheel Speed Sensor Range/Performance.
- C0507 - Right Front Wheel Speed Sensor Range/Performance.
- C050D - Left Rear Wheel Speed Sensor Range/Performance.
- C0513 - Right Rear Wheel Speed Sensor Range/Performance.

NOTE: Erroneously set wheel speed sensor DTCs listed above will not turn on the MIL by design but may be found during a vehicle diagnostic scan.

Some customers may also experience the following:

- The engine being too quick to shut down when coming to a stop in Engine Stop/Start (ESS) mode.
- During an engine limp mode condition, the transmission remains in a fixed gear.

In addition, the following software enhancements are available:

- Calibration update to allow the throttle body to be cycled while the engine is off, for diagnostic purposes.
- Calibration update for ESS to allow the engine to remain running during a brief stop.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

REPAIR PROCEDURE:

NOTE: The Transmission Control Module (TCM) must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the TCM software.

NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the flash process.

NOTE: If this flash process is interrupted/aborted, the flash should be restarted.

1. Reprogram the PCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. Clear any DTCs that may have been set in any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Verify the TCM is programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the TCM software.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-D6	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 5 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

FAILURE CODE:

The dealer must use failure code CC with this Service Bulletin.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used.
- When utilizing this failure code the 3C's (customer's concern, cause and correction) must be provided for processing Service Bulletin flash/reprogramming conditions.

CC	Customer Concern
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